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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/070,921	07/10/2002	Hiroshi Kido	2002-0319A	2978
513 759	90 12/01/2004		EXAM	INER
WENDEROTH, LIND & PONACK, L.L.P.			HILL, MYRON G	
2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
			1648	
			DATE MAILED: 12/01/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
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Office Action Cummons	10/070,921	KIDO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Myron G. Hill	1648			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be tined by the statutory minimum of thirty (30) day do will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed is will be considered timely. the mailing date of this communication. ID (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18	<u>August 2004</u> .				
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-5 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the left.	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	*				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 3/13/02.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

Art Unit: 1648

DETAILED ACTION

This action is in response to paper filed 8/18/04.

Claims 1-5 are under consideration.

Information Disclosure Statement

A fully initialed and signed copy of the previously sent IDS paper of 13 March 2002 is enclosed.

Rejections Maintained and Necessitated By Amendment Claim Rejections - 35 USC § 112

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1- 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant argues that the claims have been amended to recite positive method steps and the CIU is known in the art and explained in the specification.

Applicant's arguments have been full considered and found persuasive in part.

Applicant has removed to word probe from the claims.

Claims 2- 5 have been amended to have a conclusion but claim 1 still lacks a conclusion to the method that states the criteria used to make the determination. It is

Art Unit: 1648

also not clear now what is meant by "substrate virus" because it could be any virus not just influenza.

Claim Rejections - 35 USC § 103

Claims 1- 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kido . et al. and Christensen et al. (IDS).

Applicant argues that the claims have been amended to recite human, that Kido fails to provide specific conditions, that only a protease with a very specific activity can cause influenza or Sendai to become the infectious form, Kido lacks a suggestion to use human miniplasmin or use MDCK cells in the assay.

Applicant's arguments have been full considered and not found persuasive.

Applicant has amended the claims to require human miniplasmin.

Kido is aware of the specificities required of proteases to cleave inflenza (see Table 1 and Figure 1). The use of CIU, MDCK cells and methods to determine infectious virus are known in the art and it is noted that Applicant argues that CIU is an art known term therefore the assay must be known. It would be obvious to one of ordinary skill in the art to look for the human functional equivalent of miniplasmin because one is looking for an inhibitor of influenza for use in humans. Christensen *et al.* is cited as evidence of human miniplasmin. One of ordinary skill in the art would be able to determine homologous proteins to rat miniplasmin and proteases with the requires cleavage specificity.

Thus, the invention is not patentable over Kido et al. and Christensen et al.

Art Unit: 1648

Conclusion

No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 571-272-0901. The examiner can normally be reached on 9am-6pm Mon-Fri.

Art Unit: 1648

Page 5

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Myrdn & Hill Patent Examiner November 22, 2004

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